



FORM PTO-1449 TO BE FILED WITH  
INFORMATION DISCLOSURE STATEMENT

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. ENV1298-002D Serial No. 09/556,132

INFORMATION  
DISCLOSURE STATEMENT  
BY APPLICANTS

Roger G. Etter

Applicant

April 21, 2000

Filing Date

1764

Group Art Unit

Yildirim

Examiner's name

**U.S. PATENT DOCUMENTS**

Examiner's Initial	Document Number	Date	Name	Class/Sub-class
	NONE			

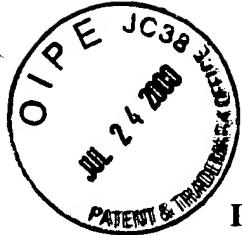
**FOREIGN PATENT DOCUMENTS**

Examiner's Initial	Document Number	Date	Country/Name	Translation? yes/no
	NONE			

**OTHER DOCUMENTS**

1. U.S. Department of Energy, DOE Techline Fossil Energy, New Research Focuses on Reducing Energy Consumption, Improving Environmental Performance of Refinery Coking Process, 2 pp., (April 22, 1999).

Examiner <u>B. Yildirim</u>	Date Considered <u>12/16/02</u>
-----------------------------	---------------------------------



**FORM PTO-1449 TO BE FILED WITH  
INFORMATION DISCLOSURE STATEMENT**

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. ENV1298-002D Serial No. 09/556,132

INFORMATION  
DISCLOSURE STATEMENT  
BY APPLICANTS

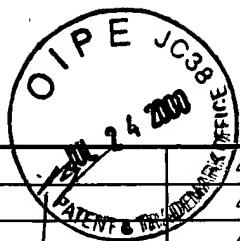
Roger G. Etter  
Applicant

April 21, 2000  
Filing Date                          Group Art Unit

Examiner's name

**U.S. PATENT DOCUMENTS**

Examiner's Initial	Document Number	Date	Name	Class/Sub-class
	Re 20,011	06/1936	Pelzer	202/15
	1,831,719	11/1931	Pelzer	
	1,873,024	08/1932	Pelzer	
	2,881,130	04/1959	Pfeiffer et al.	208/127
	3,617,480	11/1971	Kneel	208/50
	3,661,543	05/1972	Saxton	8/206
	3,702,516	11/1972	Luckenbach	48/206
	3,702,816	11/1972	Bachmann et al.	208/50
	3,759,676	09/1973	Lahn	48/206
	3,775,290	11/1973	Peterson et al.	208/50
	3,775,294	11/1973	Peterson et al.	208/89
	3,816,084	06/1974	Moser, Jr. et al.	05/72
	3,852,047	12/1974	Schlinger et al.	44/24
	3,896,023	07/1975	Ozaki et al.	208/46
	3,917,564	08/1974	Meyers	208/131
	3,932,587	01/1976	Grantham et al.	423/242
	4,043,898	08/1977	Kegler	208/50
	4,049,538	09/1977	Hayashi et al.	208/50
	4,055,484	10/1977	Blaser et al.	208/127
	4,096,097	06/1978	Yan	252/510
	4,100,035	06/1978	Smith	07/78
	4,178,229	12/1979	McConaghy et al.	208/50
	4,188,277	02/1980	Martin	204/190
	4,198,380	04/1980	Kohl	423/242
	4,269,696	05/1981	Metrailler	208/120



	4,295,956	10/1981	Metrailler	208/127
	4,302,324	11/1981	Chen et al.	208/131
	4,312,742	01/1982	Hayashi	208/50
	4,364,741	12/1982	Villa	44/51
	4,388,152	06/1983	Wasson et al.	201/6
	4,441,887	04/1984	Funk	44/51
	4,443,415	04/1984	Queneau et al.	423/68
	4,477,259	10/1984	Funk	44/51
	4,478,602	10/1984	Kelley et al.	44/51
	4,479,804	10/1984	Chen et al.	44/1 SR
	4,481,101	11/1984	Yan	208/50
	4,490,171	12/1984	Suzuki et al.	75/42
	4,519,898	05/1985	Allan	208/131
	4,521,277	06/1985	Calderon et al.	196/46
	4,547,284	10/1985	Sze et al.	208/50
	4,551,232	11/1985	Calderon et al.	208/92
	4,631,025	12/1986	Casper et al.	432/15
	4,666,585	05/1987	Figgins et al.	208/131
	4,828,680	05/1989	Green et al.	208/120
	4,853,106	08/1989	Grove et al.	208/131
	4,874,505	10/1989	Bartilucci et al.	208/131
	4,895,636	01/1990	Chen et al.	208/113
	5,009,767	04/1991	Bartilucci et al.	208/85
	5,015,362	05/1991	Chin	208/121
	5,034,030	07/1991	Miller et al.	55/96
	5,110,448	05/1992	Adams et al.	208/131
	5,114,564	05/1992	Goyal	208/131
	5,114,566	05/1992	Naeger et al.	208/289
	5,165,902	11/1992	Bortz et al.	423/235
	5,215,557	06/1993	Johnson et al.	55/122
	5,246,680	09/1993	Pikkujämsä	423/244.07
	5,258,115	11/1993	Heck et al.	208/131
	5,277,795	01/1994	Thornhill et al.	208/251
	5,339,755	08/1994	Smith	110/345
	5,350,503	09/1994	Freymeyer et al.	208/131
	5,439,658	08/1995	Johnson et al.	423/243.08
	5,470,556	11/1995	Samish	423/243.08
	5,490,918	02/1996	Meek	208/131
	5,496,729	03/1996	Monticello	435/282
	5,529,599	06/1996	Calderon	75/10.63
	5,591,326	01/1997	Shih	208/251 R
	5,635,149	06/1997	Klingspor et al.	423/243.08
	5,651,948	07/1997	Myers et al.	423/244.07

---

## FOREIGN PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Country/Name	Translation? yes/no
	NONE			

---

## OTHER DOCUMENTS

1. Fletcher, Peter, Delayed Coking, *Chem. Engineer*, Sept/Oct. (1983), 21-23.
2. Janssen et al., Improved Coking Design Can Up Liquid Yields, *Oil & Gas J.* (June 25, 1984) 79-83.
3. Lieberman, Norman, Shot Coke: Its Origins and Prevention, *Oil & Gas J.* (July 8, 1985) 45-46.
4. Lieberman, Norman, Good Operating Techiques Improve Coker Yeild, Increase Gas-Oil Production, *Oil & Gas J.* (March 10, 1986) 53-54.
5. Lieberman, Norman, Procedure Reduces Coke Cutng Time for Large Drums, *Gas & Oil J.* (Nov. 24, 1986) 85-86.
6. Barnett, Jack, Desalters Can Remove More Than Salts and Sediment, *Oil & Gas J.* (Apr. 11, 1988) 43-49.
7. Archuleta et al., Cooperative Corrosion Control and Treatment Program Proves Effective, *Gas & Oil J.* (Aug. 6, 1990) 60-68.
8. Elliott, John, Design Operation Factors Can Up Coker Liquid Yields, *Gas & Oil J.* (Feb. 4, 1991) 41-44.
9. Filtration Method Efficiently Desalts Crude In Commercial Test, *Gas & Oil J.* (May 17, 1993) 59-60.
10. Bansal et al., Improve Your Coking Process, *Hydrocarbon Processing* (Feb., 1994) 63-66.
11. Stefani, A., Debottleneck Delayed Cokers For Greater Profitability, *Hydrocarbon Processing* (June, 1996) 99-103.

12. Harris, J.R., Use Desalting For FCC Feedstocks, Hydrocarbon Processing (Aug., 1996) 63-68.
13. Dickenson, et al., Refiner Options for Converting and Utilizing Heavy Fuel Oil, Hydrocarbon Processing (Feb., 1997) 57-62.
14. Auxillary Equipment, Corrosion Focus of Refining Meeting, Oil & Gas J. (Apr. 4, 1994).
15. Wagoner et al., Bruning Profiles For Solid Fuels, Amer. Soc. Mech. Eng. (Aug. 7, 1967) 1-8.
16. Reid, William, Ash Chemistry And Its Effect In Broiler Furnances, Elec. Power Res. Inst. (Dec. 2, 1980) 1-13.
17. Burning Petroleum Coke: Boiler/Complex FGD or Fluid-Bed Combustor?, (July 7, 1983).
18. Lieberman, Norman, Time for Coking Cycle Can Be Routinely Halved, Oil & Gas J. (Aug. 29, 1983) 39-44.
19. Delayed Coking, Hydrocarbon Processing (Sept., 1984) 113.
20. Kronenberger et al., Troubleshooting the Refinery Desalter Operation, Materials Performance (July, 1986) 9-17.
21. Muzio et al., Dry Sorbent Emission Control Technologies, JAPC Assoc. (May, 1987) 642-654.
22. Deepwater Fires 100% Coke, Sells All FGD Gypsum Product, Power (Oct., 1988).
23. Lieberman, Norman, Frequently Asked Questions On Coke Quality Answered, Oil & Gas J. (Mar. 27, 1989) 67-69.
24. Makansi, Jason, Clean Air Act Amendments: The Engineering Response, Power (June, 1991) 11-60.
25. Herzog et al., Feasibility, Modeling and Economics of Sequestering Power Plant CO<sub>2</sub> Emissions In the Deep Ocean, Envior. Progress Vol. 10 (Feb. 1991) 64-74.
26. Elliott, J.D., Maximize Distillate Liquid Products, Hydrocarbon Proc. (Jan., 1992) 75-80.
27. Sulfur Dioxide Control, Steam 40 (1992) Chapter 35.
28. Fuel Ash Effects on Boiler Design and Operation, Steam 40 (1992) Chapter 20 (pp. 1-28).
29. Sources of Chemical Energy, Steam 40 (1992) Chapter 8.

30. Burners and Combustion Systems for Pulverized Coal, Steam 40 (1992) Chapter 13.
31. Kent, James, Handbook of Industrial Chemistry, Published by Van Norstrand Reinhold (1992).
32. Rittenhouse, R.C., Action Builds On The Road To CAA Compliance (Part II), Power Eng. (June, 1992) 43-50.
33. Batra et al, Desing Process Equipment for Corrosion Control, Chem. Eng. Prog. (May, 1993) 68-76.
34. Livengood et al., FG Technologies for Combined Control of SO<sub>2</sub> and NO<sub>x</sub>, Power Eng. (Jan., 1994) 38-42.
35. Torrens et al., Electric Utility Response to the Clean Air Act Amendments, Power Eng. (Jan., 1994) 43-47.
36. Coke Quality, Oil & Gas J. (May 2, 1994) 114-115.
37. Wolsky et al, CO<sub>2</sub> Capture From the Flue Gas of Conventional Fossil-Fuel-Fired Power Plants, Envr. Progress Vol. 13 (Aug., 1994) 214-219.
38. Chue et al., Comparison of Activated Carbon and Zeolite 13X for CO<sub>2</sub> Recovery From Flue Gas by Pressure Swing Adsorption, Amer. Chem. Soc. (1995) 591-598.
39. Akai et al., Performance Evaluation of Fossil Power Plant With CO<sub>2</sub> Recovery and Sequestering System, Energy Convers. Mgmt. Vol. 36 Nos. 6-9 (1995) 801-804.
40. Coking/Catalytic Cracking/Catalytic Reforming, HydroCarbon Processing (Oct., 1996).
41. Refining 1996, HydroCarbon (Nov., 1996).
42. Sincero & G.A. Sincero, Environmental Engineering A Design Approach, Types of Control (625-633).
43. Bisio & A. Boots, Air Pollution Control Methods, The Wiley Encyclopedia Energy and the Environment (Vol. 1), 85-91.
44. Kiely, Gerard, Environmental Engineering, (344-345) & (757-776).
45. Handbook of Petroleum Refining Processes, (7/16- 7/29).
46. Delayed Cooking, Chapter 5 (52-64).

47. Kirk-Othmer Ency. of Chem. Tehc. 3rd Ed., Vol. 17 (194-219).  
48. Kirk-Othmer Ency. of Chem Tech., 4th Ed., Vol. 18 (433-469).  
49. Ency. of Chem. Processing and Design, Vol. 10 (1-41).

Examiner *B. Yildirim*

Date Considered

*12/15/02*

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)

Date of Deposit: July 19, 2000

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.

*Sheri L Burke*  
Sheri L. Burke

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)

Date of Deposit: August 29, 2000

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.

  
Sheri L. Burke

paper 912  
D.V. of 2/